RUPERT NEVE DESIGNS

5088

Fully Discrete
Analogue Mixer

Operations Manual

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

PORTABLE CART WARNING

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
16. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
18. This apparatus has been equipped with a rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.
19. The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.

20. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

   • Reorient or relocate the receiving antenna.
   • Increase the separation between the equipment and the receiver.
   • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   • Consult the dealer or an experienced radio/TV technician for help.

   CAUTION: Changes or modifications to this device not expressly approved by Rupert Neve Designs LLC, could void the user's authority to operate the equipment under FCC rules.

21. This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — *Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le réglement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*

22. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart. According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here:

CAUTION   AVIS

RISK OF ELECTRIC SHOCK. DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL
ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE. AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE. AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'éléctrocution.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

Duration, per day in hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Typical music via head phones
1.5	102	
1	105	Siren at 10 m distance
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

WARNING — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Table of Contents

Introduction

Thank you for purchasing a Rupert Neve Designs 5088 Fully Discrete Analogue Mixing Console. We hope you will enjoy this versatile centerpiece in your studio for many years to come. It has been a great pleasure to design and build a console of this caliber, taking the utmost care to uphold the standards and attention to detail that you have come to expect from the Rupert Neve name.

In an industry where digital technology is increasingly prevalent, we have taken care to ensure that our console topologies will integrate seamlessly into your modern studio workflow while simultaneously imparting an unparalleled sonic character. Tracking, mixing, and overdubbing become effortless within the scope of the 5088, allowing the engineer, producer and artist to focus on that which is paramount: making quality recordings.

Safety Guidelines

While most of these warnings are common sense, they still warrant reiteration:

Because +/- 45VDC rails power the Class A discrete amplifiers, extra care should be taken when removing or installing modules. **ALWAYS** power down the console before removing or installing any modules to ensure console longevity.

DO NOT attempt to service any part of the Console Power Supply (no user serviceable parts inside). High voltages are present and the power supply can deliver large amounts of current. Disregarding this warning may cause harm to you or to the console power supply. Contact our support staff at the following email address for troubleshooting if you encounter an issue: service@rupertneve.com

DO NOT operate the 5088 near any water sources or in areas with high indoor air pollution (smoke, dust, etc.)

DO NOT place any beverages on or around the 5088 console. If liquids (water, coffee, soda, etc.) are spilled on the console, immediately turn off all console power supplies. Please contact our support staff as soon as possible for resolution: service@rupertneve.com

DO NOT setup the 5088 Console or its Power Supplies in an unventilated or tightly enclosed space.

DO NOT block any of the chassis ventilation holes. The 5088's class-A discrete circuits generate heat during operation and the ventilation holes allow the internal console fans to properly dissipate the heat. Modifying the fans or blocking the chassis ventilation holes will shorten the life of electronic components and could cause circuit instabilities.

Unpacking

1. Use a drill with a Phillips head bit to unscrew the top panel of the crate.

2. Carefully slide the top panel off the crate and set it safely to the side.

3. Starting with the bottom center screw, remove the longer side panel by alternately loosening the screws on the left and right sides of the panel. Leave the upper left and upper right screws for last, so that the panel doesn't fall as the screws are removed. After all screws have been removed, set the side panel safely out of the way.

4. A) For 16 and 32 Channel consoles, unscrew the brace that supports the Meter Bridge; carefully lift it out of the crate, then unscrew the brace that lays across the faders and carefully lift it out of the crate.

    B) For 8 Channel consoles and Expansion Chassis, unscrew the brace that lays across the faders. Carefully lift it out of the crate, then unscrew the brace that supports the cheek and remove it as well.

5. With the help of 4+ people, remove the 5088 Chassis from the crate. The easiest method is to slide the console chassis across the foam until one person has a firm grip on each corner of the console. Persons who lift the front of the console should hold it by the metal frame, **NOT** by the arm rest.

6. Once the 5088 is out of the crate, you may begin removing the boxes from the bottom section of the crate.

BE CAREFUL to install the 541 CHANNEL and 561 GROUP Modules in the correct slots. CHANNEL and GROUP modules are NOT interchangeable.

Installing Modules

Note: 561 Group modules should always be installed in the four available slots immediately left of the Master Section Module. The 561 Group modules and Master Section are housed in a separate receptacle from the 541 Channel modules.

BEFORE loading the 5088 chassis with modules, make sure to secure the chassis inside of the console stand in its final location within the studio. It is important to note that a fully loaded 5088 console weighs on average 550lbs, making it significantly more difficult to reposition once it is loaded. To reiterate, it is important to install the console chassis in its final location **BEFORE** loading the modules.

AFTER the 5088 Chassis is installed in the console stand, unpack each module and slide it into the correct slot in the appropriate console receptacle.

Once every module is inserted into the correct console module slot, carefully hand-tighten the thumb screws at the top and bottom of each module to firmly secure them to the 5088 frame.

Guarding Against Interference

Although the 5088 Console circuitry is very well shielded by the console chassis and individual module frames, it is impossible to guarantee immunity from all potential sources of Electromagnetic (EMI) and Radio Frequency Interference (RFI).

The average recording studio environment has many potential noise sources in the form of radiating energy fields from external power supplies, computer monitors, speaker power amplifiers, fluorescent lights and dimmers.

Therefore, it may be necessary to take precautions to prevent these radiated noise sources from coupling into your 5088 console's audio path. As a first measure, the solution may be as simple as relocation of certain electronic devices to minimize their effect. However, if interference issues persist, please contact our support staff so that we may help troubleshoot for potential problems: service@rupertneve.com

Connecting Audio

We recommend that you only use high quality, balanced audio-grade cable for all of the input and output connections to and from your 5088 console. Although the 5088's back panel I/O can be directly connected to external destinations, we strongly advise you to consult a professional studio technician for interfacing the 5088 Console's I/O to a patch bay. Installing a patch bay will protect the 5088's rear panel I/O from unnecessary wear and will make signal routing more convenient. The 5088 console's rear panel I/O consists of the following connections:
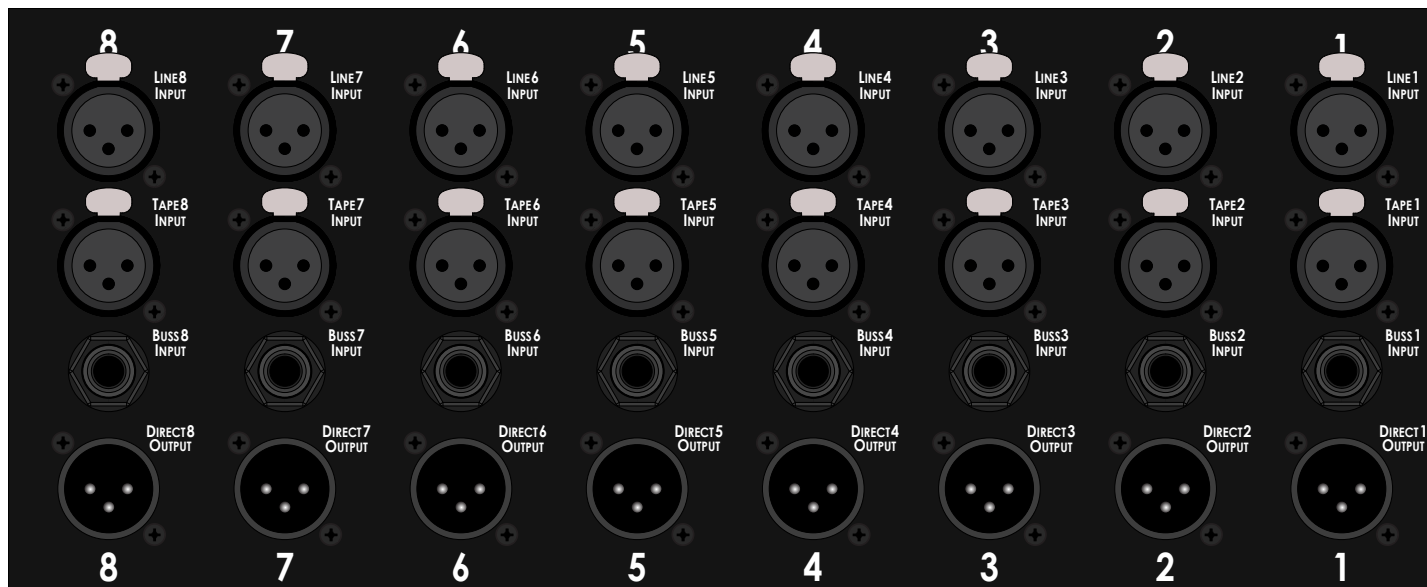
Channel I/O (per module):

> 2 x XLR-F (Line In, Tape In)
> 1 x XLR-M (Direct Output)
> 1 x TRS (Buss Input)

For a more detailed view of the I/O section, refer to the Back Panel Diagram on page 5.
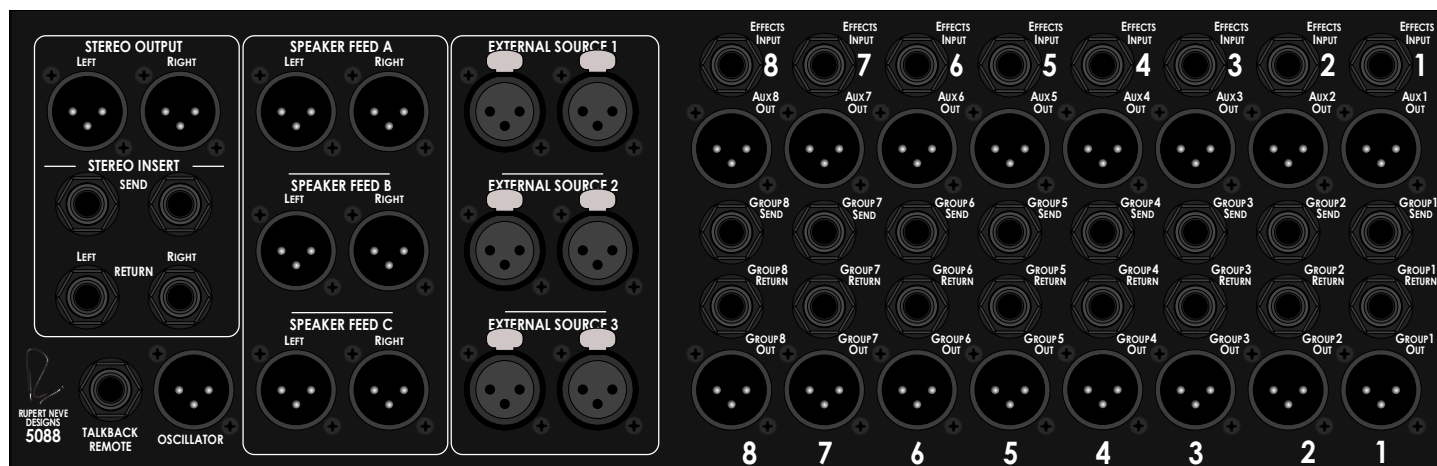
Back Panels

Channel I/O

Master Section I/O

> 6 x XLR Female
> > 3 Stereo External Source Inputs
>
> 9 x XLR Male
> > 3 Stereo Speaker Feed Outputs
> > Stereo Buss Output
> > Oscillator Out
>
> 5 x TRS
> > Stereo Buss Insert Send
> > Stereo Buss Insert Return
> > Talkback Remote

Group I/O (per module)

> 3 x TRS
> > Effects Input
> > Group Insert Send
> > Group Insert Return
>
> 2 x XLR Male
> > Auxiliary Send Output
> > Group Output

Connecting the Power Supply

The 4 rack unit 5088 Power Supply included with your 5088 Console is designed to supply power to 32 channels maximum. If another 16 Channel Expansion Chassis is added, an additional power supply will be required.

Although the Console Power Supply is relatively quiet, we recommend that it is installed in an area outside of the control room, such as a well ventilated machine room. If the power supply is installed in a rack, leave at least one slot of empty space (1RU) above and below the Power Supply for ventilation purposes. Blocking the Power Supply's ventilation holes or modifying the fans can cause permanent damage to the 5088 Power Supply.

Studio Configuration Suggestions

The 5088 can be incorporated into a recording system in several ways. The simplest method is to use a patch bay to route microphone signals from the recording room into the microphone inputs of your Portico or Shelford series preamps, and connect their line outputs directly to your AD Converter inputs. Route each DA Converter output to a corresponding tape input on the 5088 (if latency is acceptably low), and create stereo and cue mixes with the 5088's 541 Channel and 561 Group routing controls for recording or mixing.

Alternatively, if you would like to add the 5088's sonic character during tracking, or if DAW latency performance is poor, the preamp outputs can be routed to the line inputs on the 5088, and the 5088's Direct Outputs can be connected to the Converter inputs for recording through the 5088, using Auxes 1-8 and Groups 1-8 to create cue mixes and effects sends/returns.

Another option available to users with enough channel modules is to operate the 5088 in a split configuration for tracking, using one half of the console for tape sends, and the other half for tape returns. On a smaller console, the DAW can be used to sub-mix tracks and return the sub-mixed outputs to the Group Master returns and Effects returns for monitoring.

5088 Console Dimensions

"Super 8" Main Chassis

Width: 76 cm / 29.9 in
Depth: 74.4 cm / 29.3 in
Height: 27.2 cm / 10.7 in

"Super 8" with Penthouse and Meterbridge

Width: 76 cm / 29.9 in
Depth: 105 cm / 41.4 in
Height: 58.2 cm / 22.9 in

16 Channel Main Chassis

Width: 116.8 cm / 46.17 in
Depth: 74.4 cm / 29.3 in
Height: 27.2 cm / 10.7 in

16 Channel Console with Penthouse and Meterbridge

Width: 116.8 cm / 46.17 in
Depth: 105 cm / 41.49 in
Height: 58.2 cm / 22.95 in

16 Channel Expansion Chassis

Width: 73 cm / 28.52 in
Depth: 74.4 cm / 29.3 in
Height: 27.2 cm / 10.7 in

16 Channel Expansion Chassis with Penthouse and Meterbridge

Width: 73 cm / 28.52 in
Depth: 105 cm / 41.49 in
Height: 58.2 cm / 22.95 in

5088 Console Weights

16 Channel Console (No Penthouse or Meterbridge)

Unloaded Frame Weight: 127 lbs.
Fully Loaded Weight: 255 lbs.

16 Channel Console with Penthouse and Meterbridge

Unloaded Frame weight: 196 lbs.
Fully Loaded Weight: 474 lbs.

32 Channel Console (No Penthouse or Meterbridge)

Unloaded Frame Weight: 199 lbs.
Fully Loaded Weight: 387 lbs.

32 Channel Console with Penthouse and Meterbridge

Unloaded Frame Weight: 310 lbs.
Fully Loaded Weight: 744 lbs.

48 Channel Console (No Penthouse or Meterbridge)

Unloaded Frame Weight: 199 lb. & 72 lb. sections
Fully Loaded Weight: 539 lbs. fully assembled

48 Channel Console with Penthouse and Meterbridge

Unloaded Frame Weight: 310 lb. & 114 lb. sections
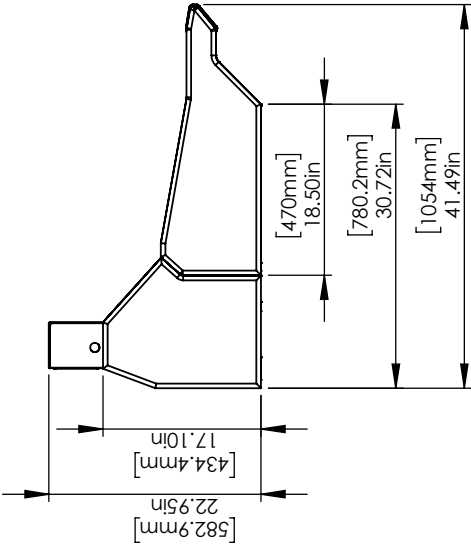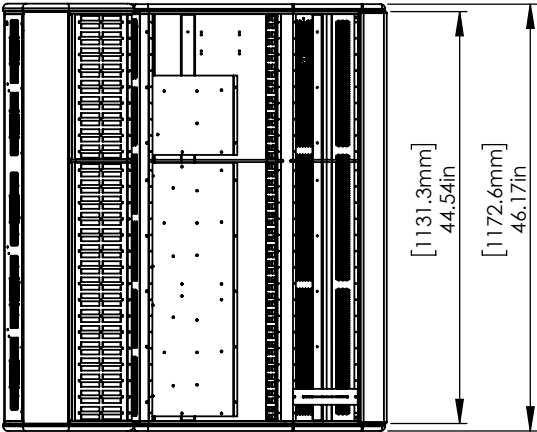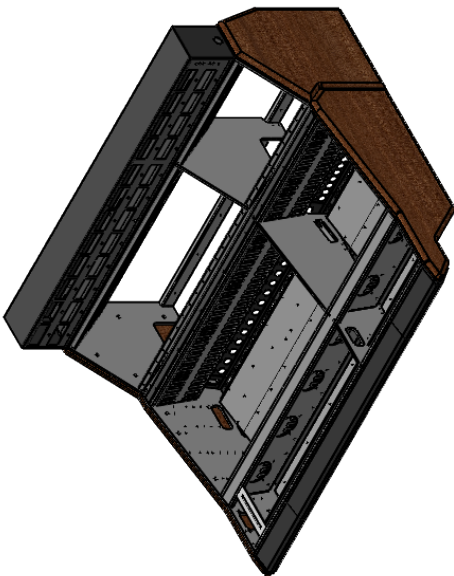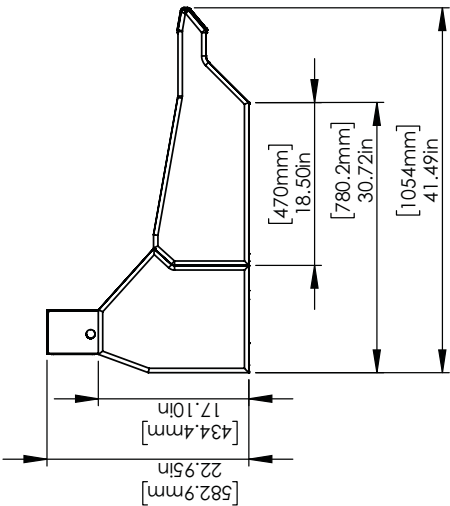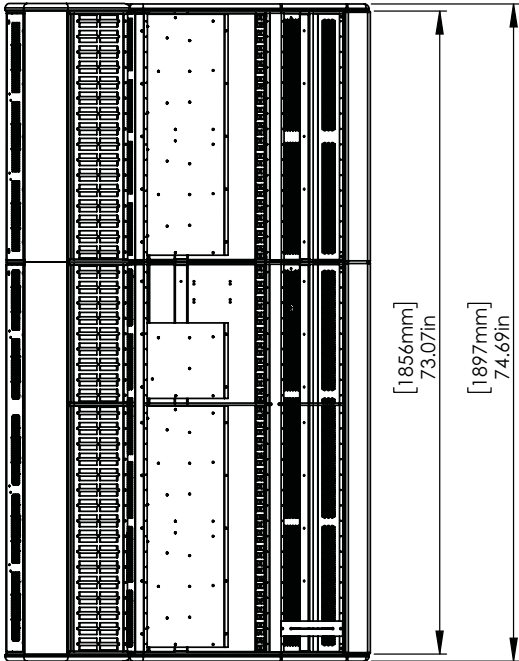Fully Loaded Weight: 1034 lbs. fully assembled

64 Channel Console (No Penthouse or Meterbridge)

Unloaded Frame Weight: 199 lb. & 144 lb. sections
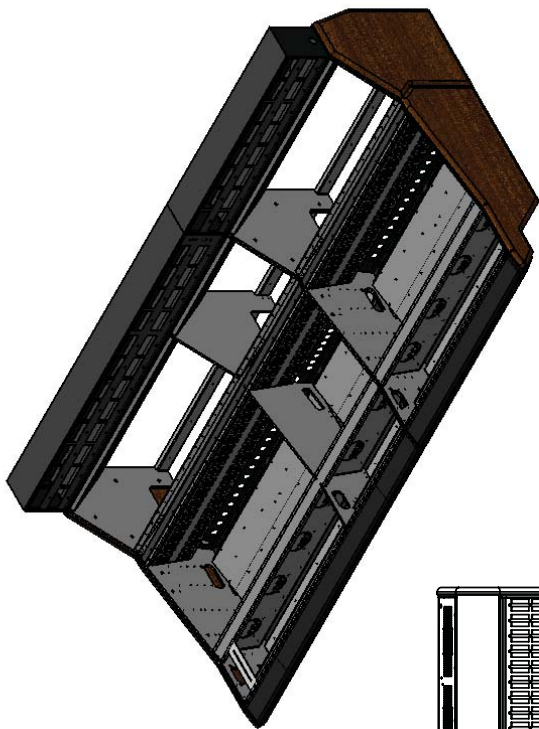Fully Loaded Weight: 691 lbs. fully assembled

64 Channel Console with Penthouse and Meterbridge

Unloaded Frame Weight: 310 lb. & 228 lb. sections
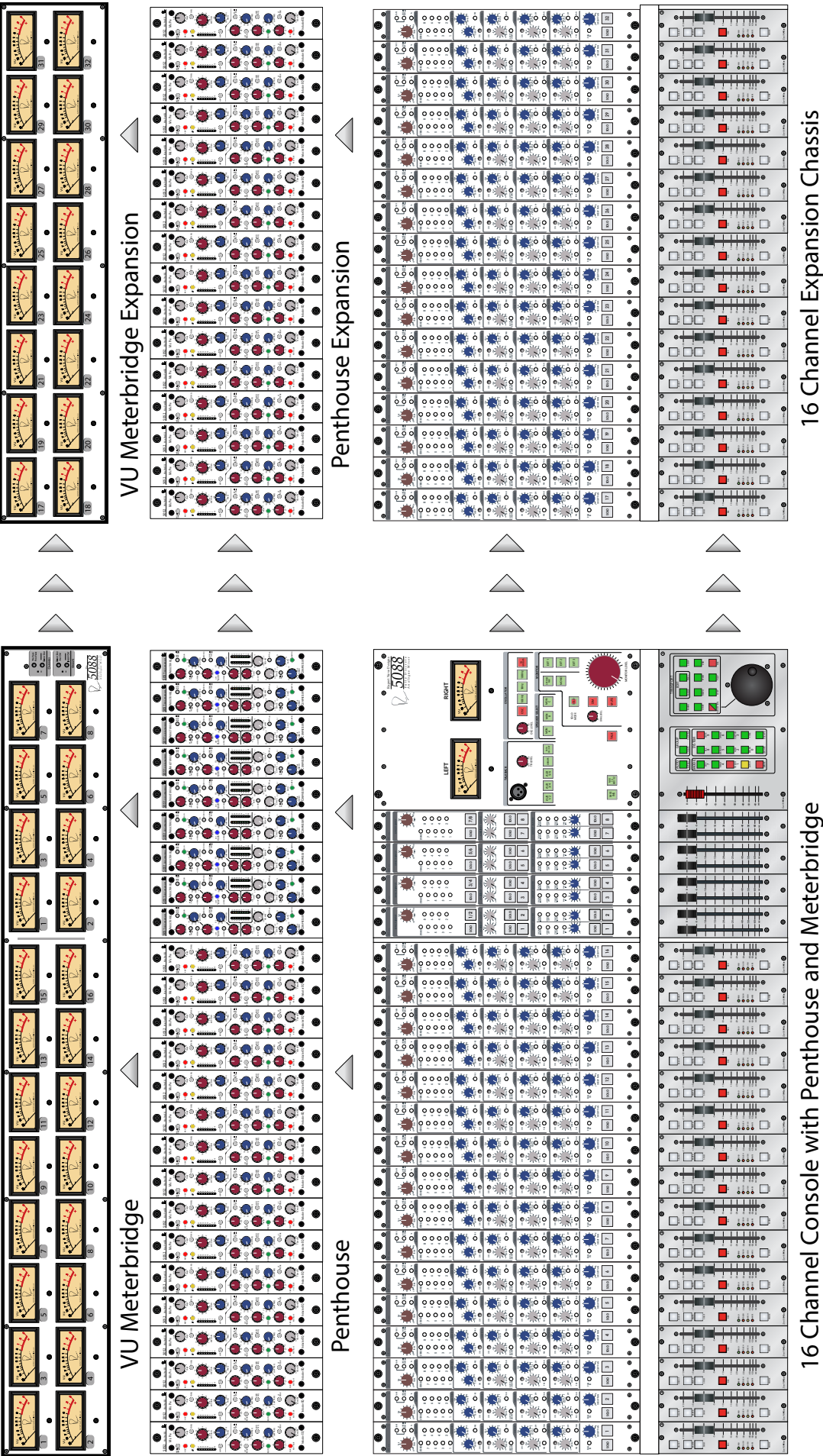Fully Loaded Weight: 1324 lbs. fully assembled

Dimensions

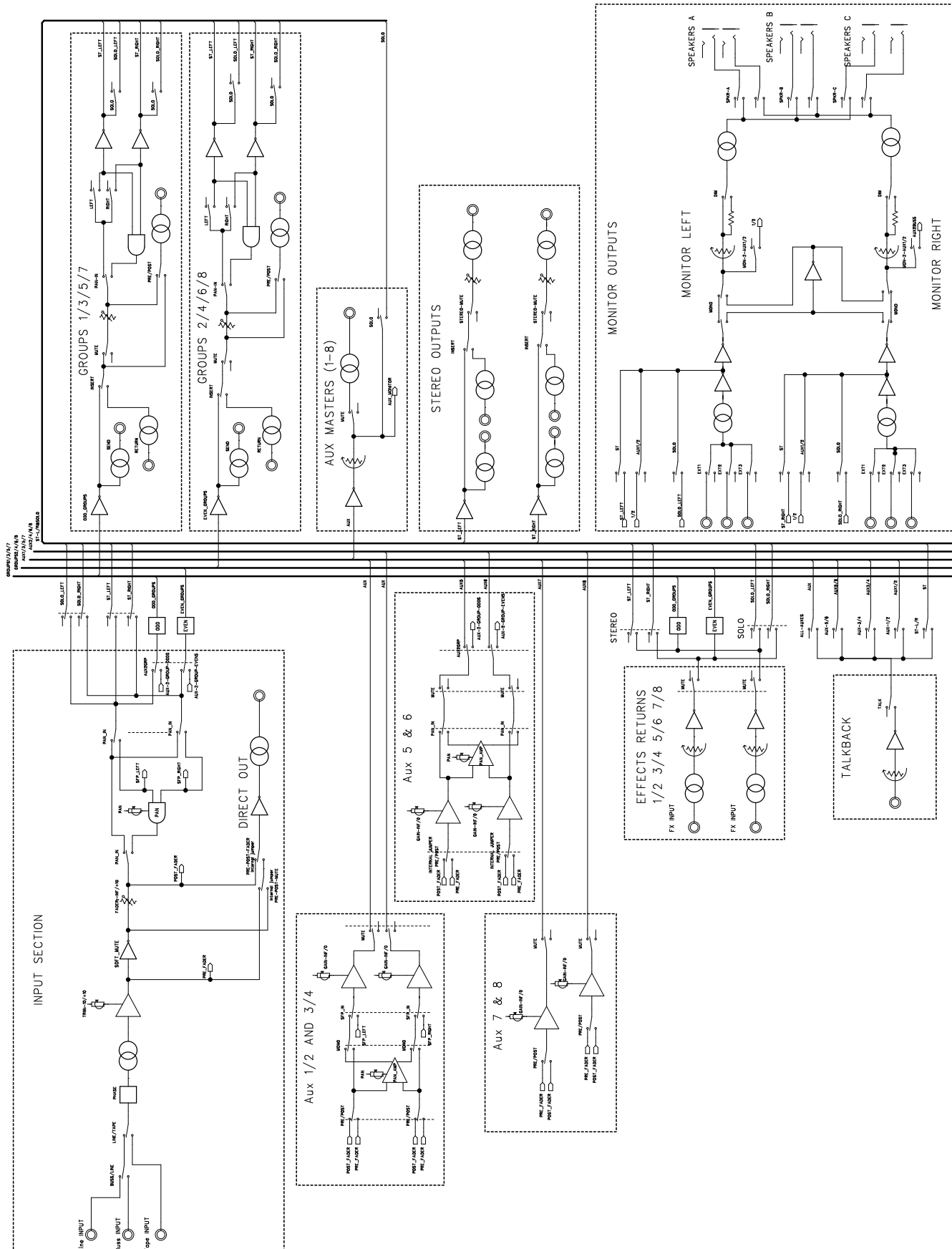16 Channel 5088, Penthouse, Meterbridge

[1131.3mm]
44.54in

[1172.6mm]
46.17in

[470mm]
18.50in

[780.2mm]
30.72in

[1054mm]
41.49in

[434.4mm]
17.10in

[582.9mm]
22.95in

32 Channel 5088, Penthouse, Meterbridge

Dimensions

[1856mm]
73.07in

[1897mm]
74.69in

[470mm]
18.50in

[780.2mm]
30.72in

[1054mm]
41.49in

[434.4mm]
17.10in

[582.9mm]
22.95in

VU Meterbridge Expansion

Penthouse Expansion

16 Channel Expansion Chassis

VU Meterbridge

Penthouse

16 Channel Console with Penthouse and Meterbridge

Configuration Guide

5088 Console Block Diagram

Cleaning Instructions

When cleaning the 5088, do not spray cleaning solutions directly onto the console surface. Only apply cleaning solutions to a lint-free cloth, then gently wipe the console surface.

Shipping Instructions

To remove a 541 Channel or 561 Group module for servicing, power off the 5088, unscrew the thumbscrews at the top and bottom of the module and carefully slide the module out of the slot by pulling upwards on the thumbscrews. Contact our support staff for shipping instructions.

Additional 541 Channel or 561 Group modules may be purchased as spares in the event of a module requiring service.
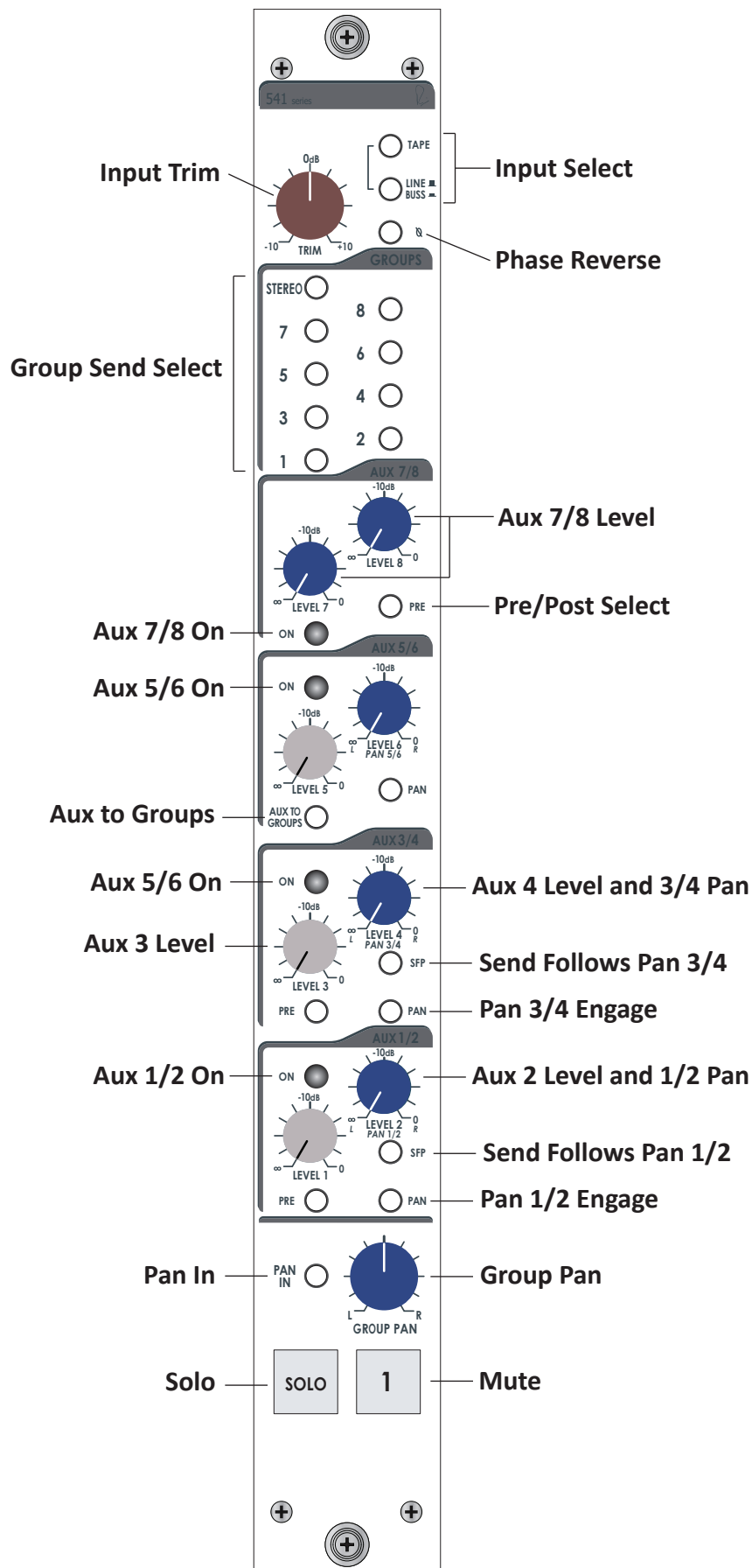
If the Master module needs to be serviced, please call our support team for instructions prior to removal.

Disclaimer

Rupert Neve Designs, LLC has an established policy of seeking improvements to designs, specifications and manufacture of its products. Alterations to existing products take place continually, often without notice.

Despite considerable efforts to produce the most up to date information, this user guide must not be considered an infallible guide to the latest specifications available.

541 Channel Module

Input Trim

Input Select

Phase Reverse

Group Send Select

Aux 7/8 Level

Pre/Post Select

Aux 7/8 On

Aux 5/6 On

Aux to Groups

Aux 5/6 On

Aux 4 Level and 3/4 Pan

Aux 3 Level

Send Follows Pan 3/4

Pan 3/4 Engage

Aux 1/2 On

Aux 2 Level and 1/2 Pan

Send Follows Pan 1/2

Pan 1/2 Engage

Pan In

Group Pan

Solo

Mute

Channel Module

The push-buttons at the top of each 541 Channel select between transformer-coupled **LINE**, **BUSS** or **TAPE** inputs. The **BUSS** input is not a line input, and should only be used with **BUSS** outputs from Portico modules.

Each 541 Channel features:
- An input **TRIM** control with - 10dB/+10dB fully variable input level adjustment.
- Push-button assignment to the 8 Group Busses and Stereo Buss.
- **SOLO** and **MUTE** illuminated latching buttons. The **SOLO** button lights red when there is a signal overload present on the channel.

The pan control at the bottom of the 541 Channel has a **PAN IN** push-button which engages the Pan control for Stereo, Group, and Solo Buss assignment.

The eight Auxiliary Sends come in three different configurations:

Aux 1/2 and Aux 3/4 are identical. They are dual mono sends by default. When the **PAN** push-button is engaged, they become stereo sends, and the **LEVEL 2** and **LEVEL 4** controls become pan controls. The **ON** push-button engages the Aux Sends, and the **PRE** push-button changes Pre/Post Fader assignment. Engaging the **SFP** (Send Follows Pan) push-button allows the stereo panning between Aux 1/2 or Aux 3/4 to be controlled by the Channel Pan.

Aux 5/6 is a dual mono send by default. When the **PAN** push-button is engaged, Aux 5/6 becomes a stereo send and the **LEVEL 6** control becomes a Pan control. The **ON** push-button engages the Aux 5/6 send. The **AUX TO GROUPS** push-button routes the Aux 5/6 signal to the Group Busses selected in the Group Send Select section.

Aux 7/8 is a dual mono send. The **ON** push-button engages the Aux 7/8 send, and the **PRE** push-button changes Pre/Post Fader assignment (always pre-mute).

Every channel module has a transformer-coupled direct output that can be assigned Pre/Post Fader and Pre/Post Mute via internal jumpers (Post Fader/ Post Mute by default).

Each 541 Channel has an associated 100mm fader for controlling the Channel level to the Stereo Buss.

Channel Module Jumpers

The 541 Channel has internal jumpers that can be changed to alter the functionality of Aux 5/6 as well as the Direct Output. Before removing Channel modules to change jumper positions, power off the 5088. Grab the jumpers using your fingers or a small set of needle-nose pliers.

Aux 5/6: Pre-Fader/Post Fader

The Aux 5/6 jumper J4 is physically located on the upper (daughter) board between the **AUX 3/4 PRE/POST** and **AUX 3/4 MUTE** push-button switches.
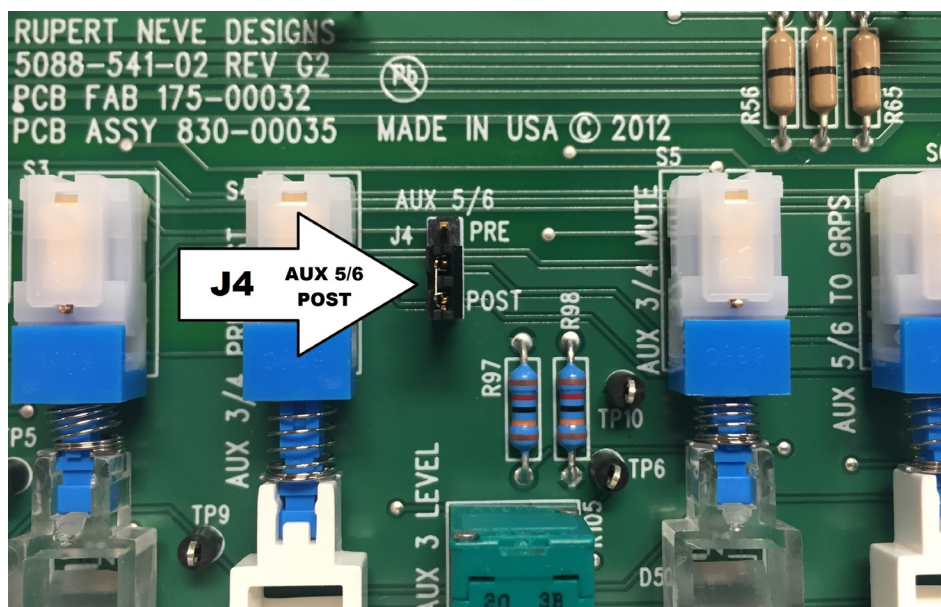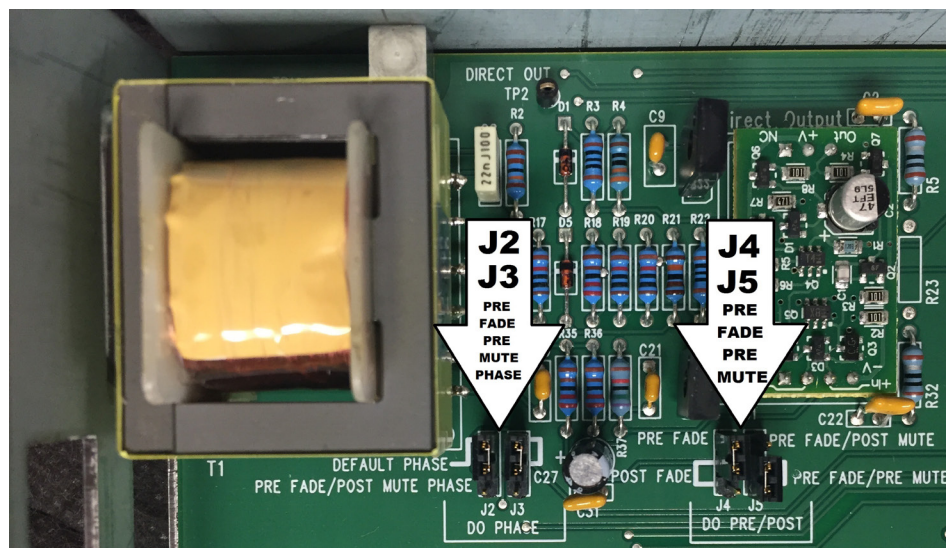

Direct Output: Pre-Fader/Post Fader & Pre-Mute/Post-Mute

The 541 Channel's transformer-coupled Direct Output can be assigned in three different ways via internal jumpers. The jumpers are located in the bottom corner of the Mother Board (J2, J3, J4, and J5).
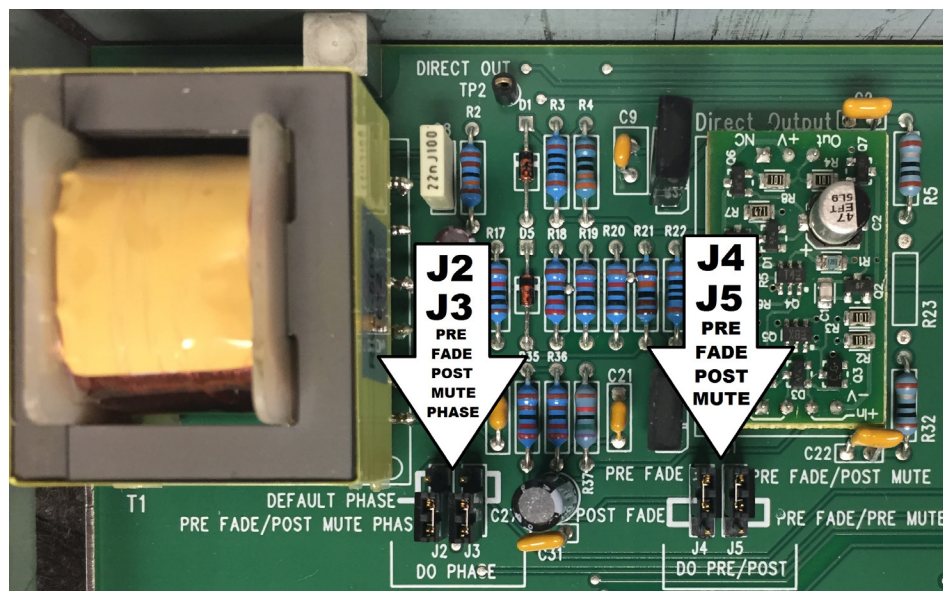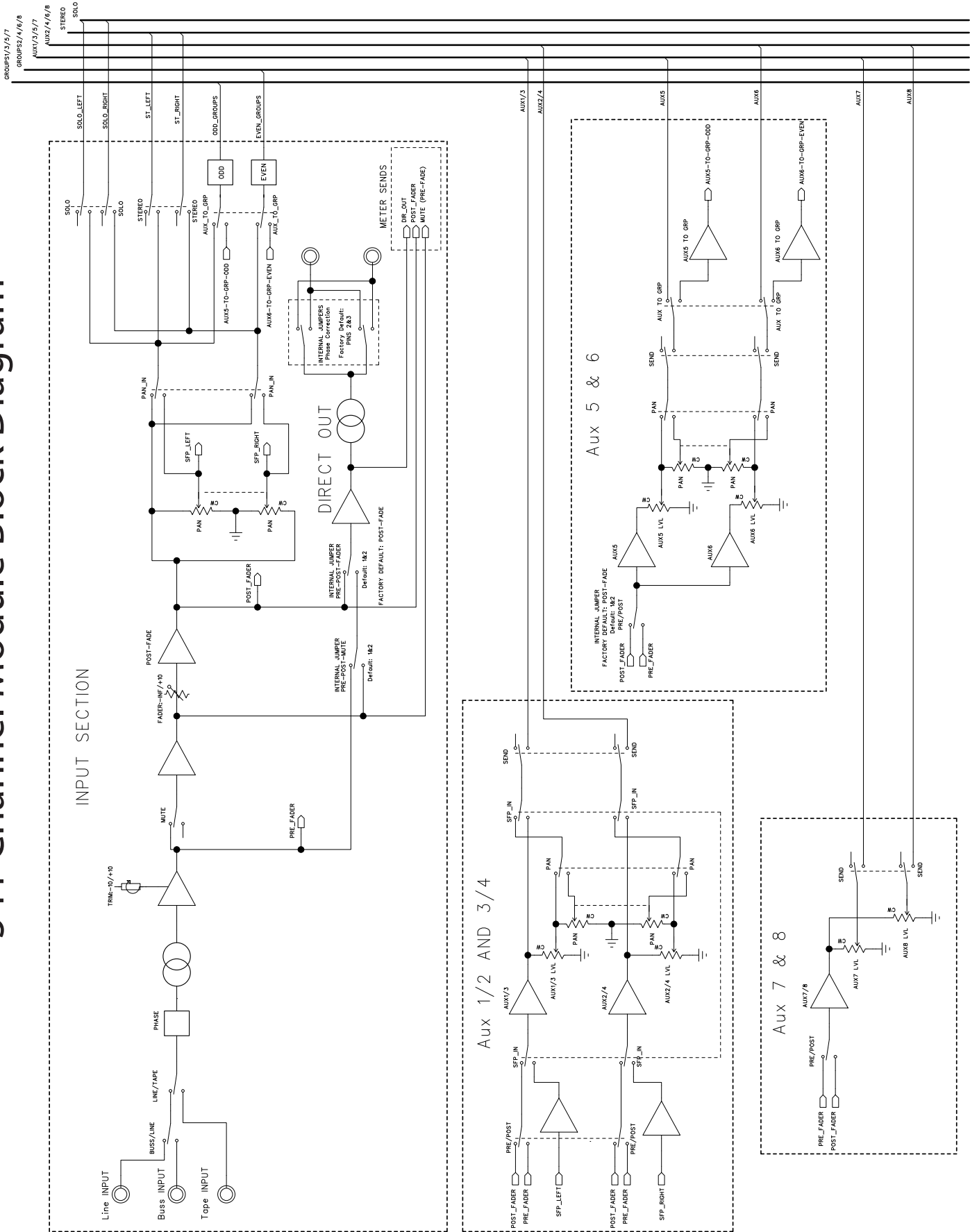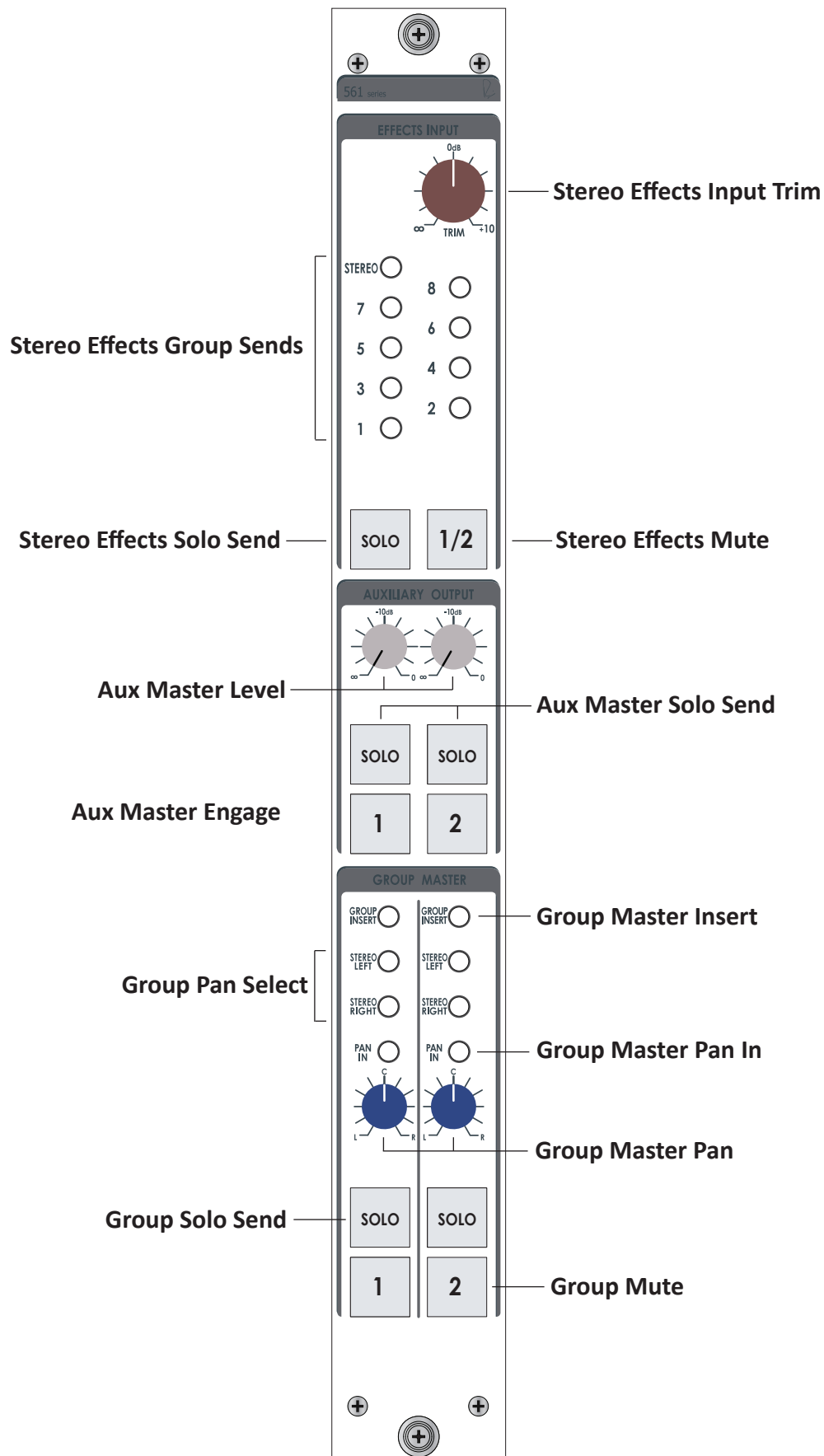
Post-fader / Post-mute (default)
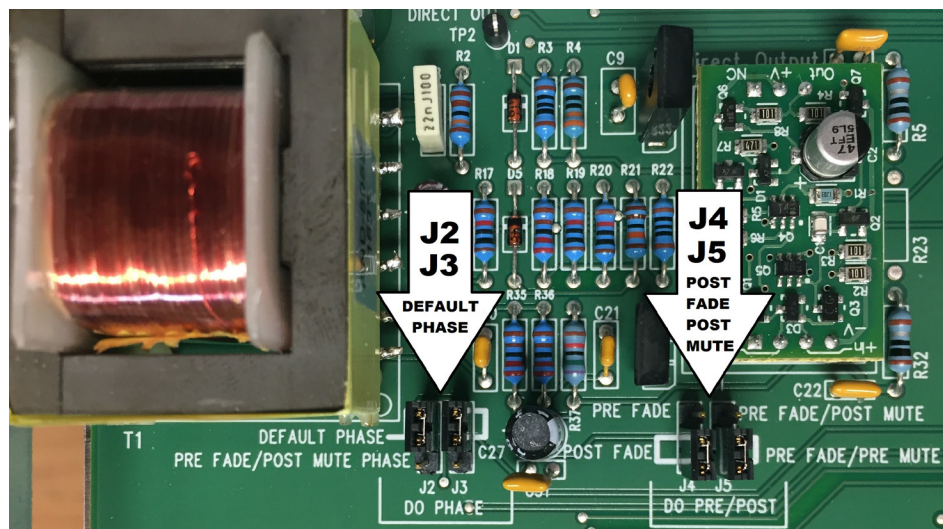
Pre-fader / Pre-mute

Pre-fader / Post-mute

541 Channel Module Block Diagram

561 Group Module

Stereo Effects Input Trim

Stereo Effects Group Sends

Stereo Effects Solo Send — Stereo Effects Mute

Aux Master Level

Aux Master Solo Send

Aux Master Engage

Group Master Insert

Group Pan Select

Group Master Pan In

Group Master Pan

Group Solo Send

Group Mute

Group Module

Each 561 Group features four dual inputs with Stereo Effects Returns. Each input features:

- An Effects input **TRIM** control with -∞ /+10dB fully variable input level adjustment.
- Push-button assignment to the 8 Group Busses and Stereo Buss.
- **SOLO** and **MUTE** illuminated latching buttons.

Each Stereo Effects Return consists of two transformer-coupled line inputs which connect to TRS jacks on the 5088's Back Panel I/O.

The 561 Group includes a pair of transformer-coupled Auxiliary Master Outputs that are accessible on the 5088's Back Panel I/O via XLR jacks. Each of the Auxiliary Master Outputs features:

- Individual level control.
- **SOLO** and **MUTE** illuminated latching buttons.

Each 561 Group has a set of Group Master Output controls. These features include:

- **GROUP MASTER INSERT** push-button which brings the insert send and return into the Group signal path. TRS jacks are available on the 5088's Back Panel I/O for this feature.
- Individual **STEREO LEFT** and **STEREO RIGHT** push-buttons that assign the Group Master directly to the left or right Stereo Buss.
- **GROUP MASTER PAN** control that allows the user to pan between the left and right Group Busses.
- **SOLO** and **MUTE** illuminated latching buttons.
- Transformer-coupled Direct Outputs available on the 5088's Back Panel I/O via male XLR connectors. By default, the Group Direct Output is Post Fader, Post Mute.

Each 561 Group has an associated 100mm fader for controlling the Group level to the Stereo Buss.
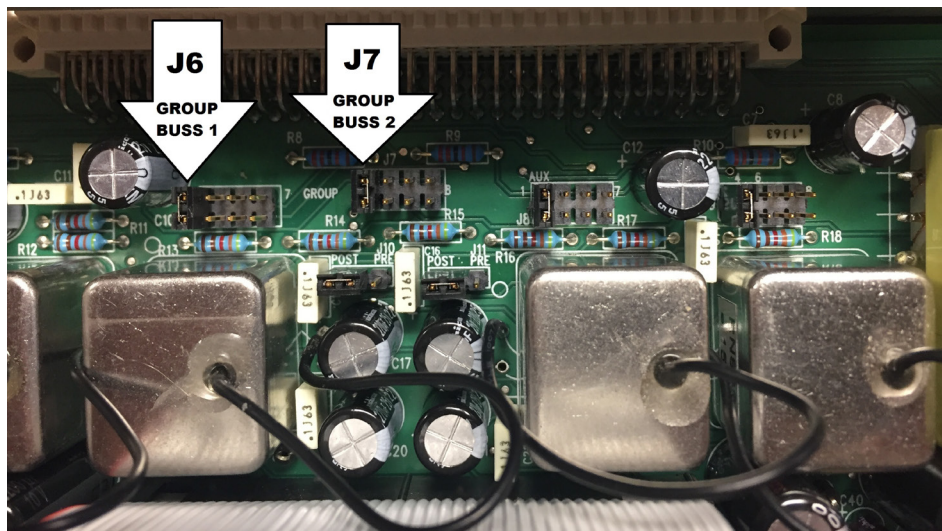
Group Module Jumpers

Group Module Direct Output: Pre-Fader/Post Fader

By default, the 561 Group Direct Outputs are set to Post-Fader, Post-Mute. This can be changed via internal jumpers (J1, J2, J4, J5, J10 and J11). Before attempting this change, please contact our support staff at the following email address:
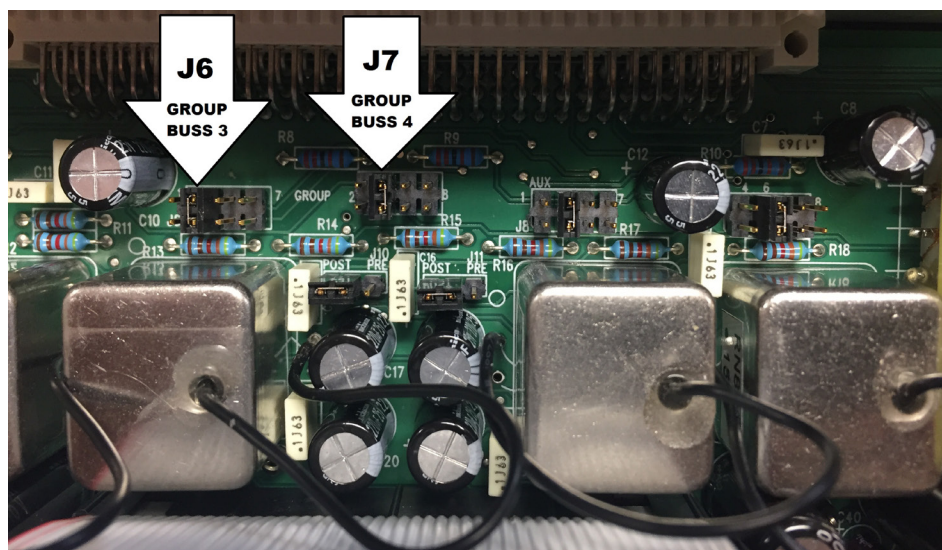
service@rupertneve.com

Group Module Buss Selector

The Group Buss that each 561 Group module receives is determined by the position of two jumpers, J6 and J7. In the photo below, Group Module 1/2 has internal jumpers J6 and J7 set to receive Group Busses 1 and 2.
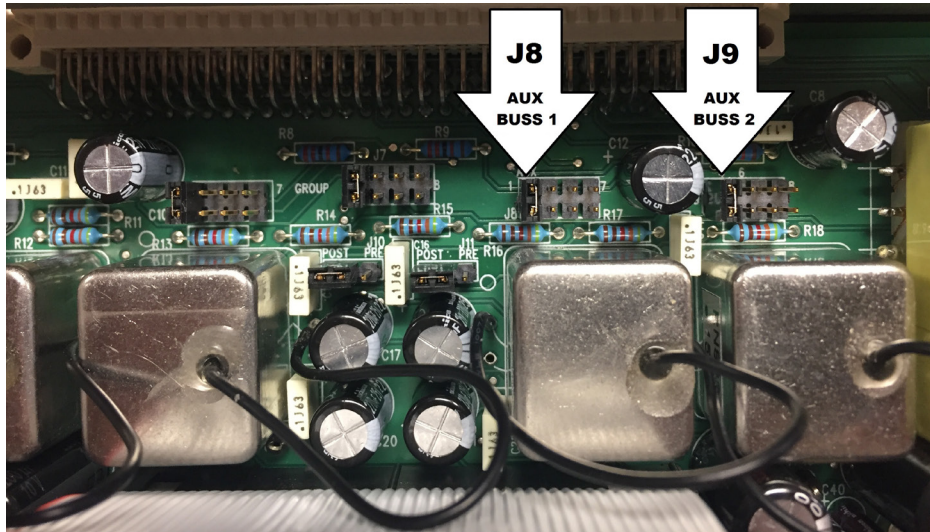

Group Module 3/4 is set to receive Group Busses 3 and 4, etc.
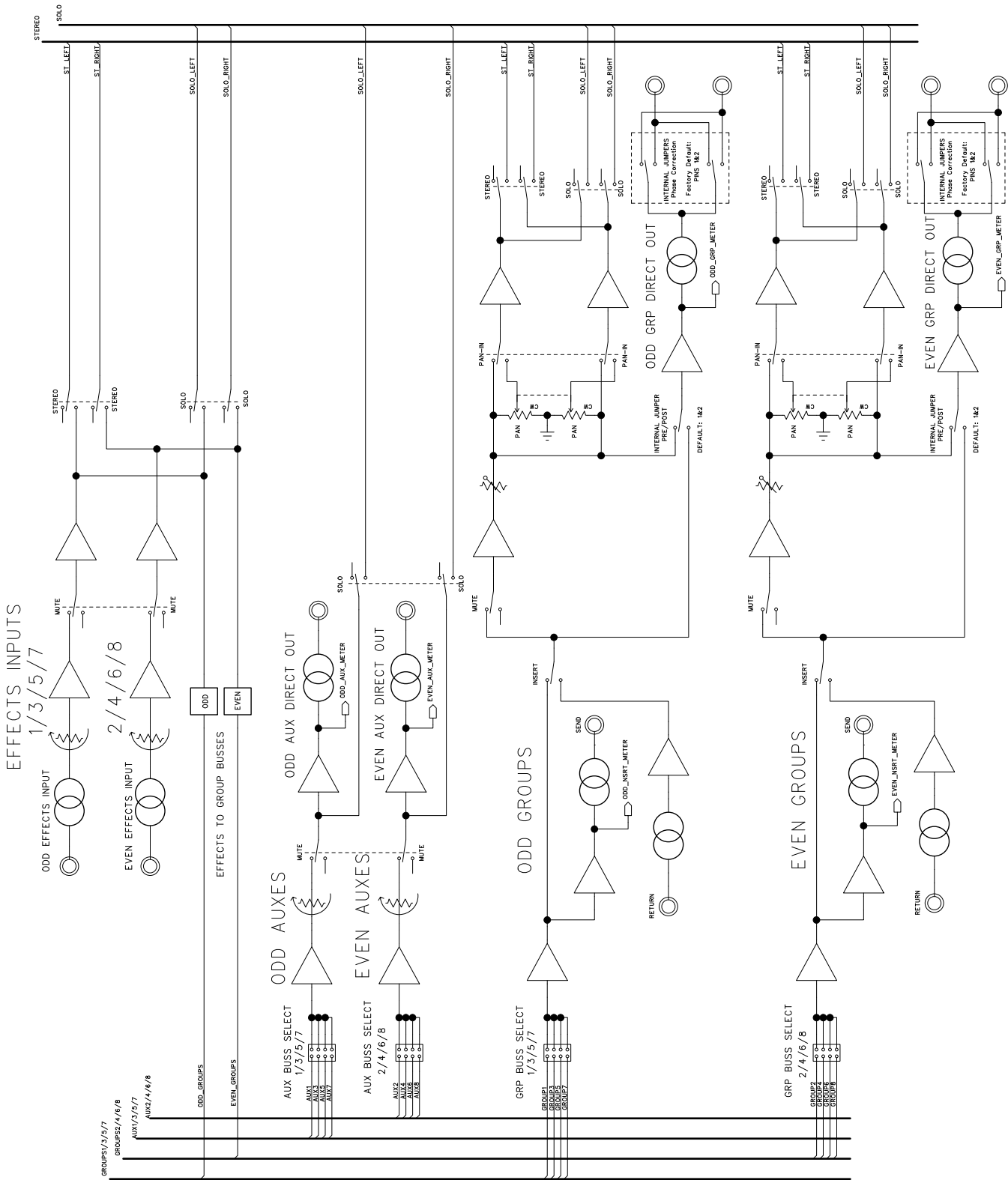
Group Module Aux Buss Selector

The Aux Buss that each 561 Group module receives is determined by the position of jumpers J8 and J9. In the photo below, Group Module 1/2 has internal jumpers J8 and J9 set to receive Aux Buss 1 and 2.

The Aux Master Buss Selector jumpers J8 and J9 function the same way as the Group Buss Selector jumpers J6 and J7. Group module 3/4 is set to receive Aux Buss 3 and 4, etc.
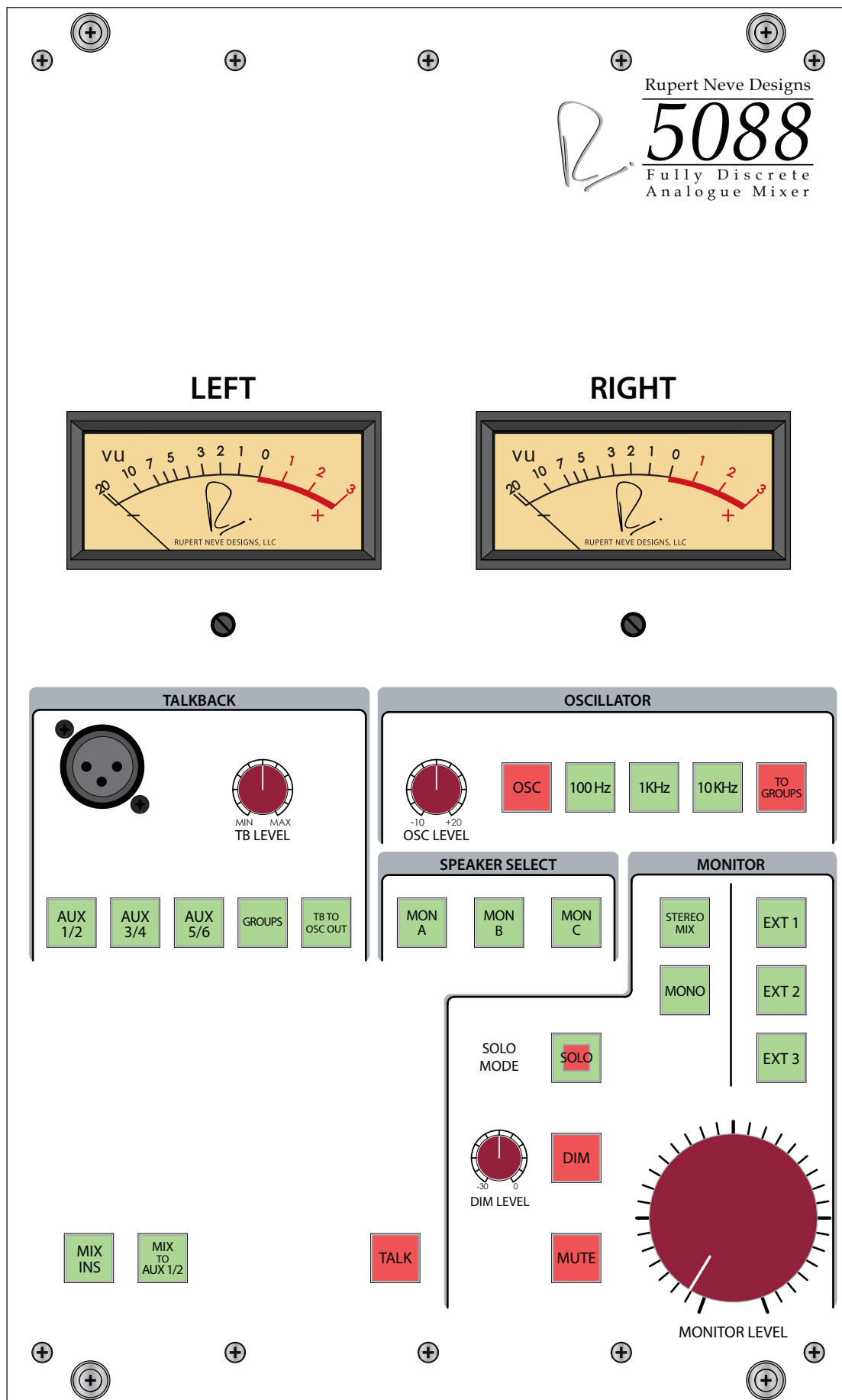
VU Meterbridge

The VU Meter bridge has 24 independent VU meters for monitoring the Channel and Group module signals.

The Channel section meters can be toggled between reading Pre-Fader, Post-Fader, and Direct Output using the push-buttons on the right side of the Meterbridge. The Group section meters can be toggled between Aux Out, Group Insert Out, and Group Direct Output monitoring.

561 Group Module Block Diagram

EFFECTS INPUTS
1/3/5/7
2/4/6/8

ODD AUX DIRECT OUT

EVEN AUX DIRECT OUT

ODD GRP DIRECT OUT

EVEN GRP DIRECT OUT

ODD AUXES

EVEN AUXES

ODD GROUPS

EVEN GROUPS

AUX BUSS SELECT 1/3/5/7

AUX BUSS SELECT 2/4/6/8

GRP BUSS SELECT 1/3/5/7

GRP BUSS SELECT 2/4/6/8

Master Section

Rupert Neve Designs
5088
Fully Discrete
Analogue Mixer

LEFT

VU
20 10 7 5 3 2 1 0 1 2 3 +
RUPERT NEVE DESIGNS, LLC

RIGHT

VU
20 10 7 5 3 2 1 0 1 2 3 +
RUPERT NEVE DESIGNS, LLC

TALKBACK

MIN   MAX
TB LEVEL

| AUX 1/2 | AUX 3/4 | AUX 5/6 | GROUPS | TB TO OSC OUT |

OSCILLATOR

-10   +20
OSC LEVEL

| OSC | 100 Hz | 1 KHz | 10 KHz | TO GROUPS |

SPEAKER SELECT

| MON A | MON B | MON C |

MONITOR

| STEREO MIX | EXT 1 |
| MONO | EXT 2 |

SOLO MODE   SOLO   EXT 3

-30   0
DIM LEVEL   DIM

| MIX INS | MIX TO AUX 1/2 |

TALK

MUTE

MONITOR LEVEL

Master Section

The master section includes:

- Left and right VU Meters.
- Talkback facilities with Talkback level control.
- Oscillator facilities with Oscillator level control.
- A, B, and C Speaker Output selection.
- Monitor Section with a Monitor Level control and **MONO**, **SOLO**, Variable **DIM** and **MUTE** buttons.
- Stereo Mix Insert and Stereo Mix to Aux 1/2.
- Stereo 100mm Fader to adjust the Stereo Buss level.

The left and right transformer-coupled Master Stereo Buss Outputs are accessible on the 5088's Back Panel I/O via male XLR connectors.

Talkback Facilities

The Master Section has a front panel female XLR input for a Talkback microphone. By default, +48V Phantom is engaged on this Talkback input, and the microphone gain is at a low setting. The Talkback features an auto-compressor designed to eliminate the need for level adjustment in a typical studio scenario. There is also a **TB LEVEL** control on the Master Section front panel so that the engineer can adjust the Talkback level output manually. Pressing and holding the momentary **TALK** button will engage the Talkback feature. Alternatively, Talkback can be operated by an external switch, such as a footswitch, connected to the **TALKBACK REMOTE** female TRS on the 5088's Back Panel I/O.

There are Talkback routing buttons that allow the Talkback signal to be sent to **AUX 1/2, AUX 3/4, AUX 5/6**, and **TO GROUPS**. If additional external Talkback signal routing is required, the **TB TO OSC OUT** button routes the Talkback signal to the male XLR on the 5088's Back Panel I/O labeled **OSCILLATOR**. All five of these Talkback routing options can be used individually or simultaneously.

Oscillator Facilities

The 5088's Back Panel I/O has a male XLR connector labeled **OSCILLATOR**. Pressing the **OSC** button on the Master Section

will turn the Oscillator on, and the **OSC LEVEL** control adjusts the Oscillator send level from -10dB to +20dB. The Oscillator section has three different selectable frequencies: 100Hz, 1kHz, and 10kHz. Pressing the **TO GROUPS** button will send the Oscillator to all eight of the Group Busses simultaneously with the selected level and frequency.

Speaker Select Section

Three buttons, **MON A**, **MON B**, and **MON C** allow the transformer-coupled Monitor outputs to be assigned to one of 3 sets of stereo male XLR loudspeaker outputs on the 5088's Back Panel I/O.

Monitor Section

The Monitor source can be selected via the **STEREO MIX** and **EXT 1**, **EXT 2**, and **EXT 3** buttons. The External Sources are connected to the female XLR inputs on the 5088's Back Panel I/O. In addition to a high precision stepped **MONITOR LEVEL** control, there is a **MONO** button that sums the left and right signals of the selected stereo monitor signal.

The **DIM** button has an associated **DIM LEVEL** control with a range of -30dB to 0dB, and is accompanied by a monitor **MUTE** button.

Stereo Insert and Mix to Aux 1/2

The illuminated **STEREO INSERT** button engages the left and right transformer-coupled Insert Returns, which are available on the 5088's Back Panel I/O via TRS connectors. The stereo Insert Send is always active, and is pre-fader, pre-soft mute. The **MIX TO AUX 1/2** button routes the Stereo Buss to AUX 1/2 for cue mix purposes.

Master Section Jumpers

There are two jumpers available in the Master Section, located on the Master Facilities card. Jumper J1 allows Phantom power to be connected or disconnected from the Talkback XLR on the Master Section front panel. Jumper J3 allows the Talkback gain to be changed between a high or a low gain setting.

Jumper J1 is set by default to +48V Phantom engaged, and Jumper J3 is set by default to a low gain Talkback setting, intended for use with a condenser microphone.

To change these jumper settings, first power down the 5088 Console. Loosen the thumbscrews on the 561 Group modules 5/6 and 7/8. Removing these two 561 Group modules will provide enough space to change the jumper settings without removing the Master Section.
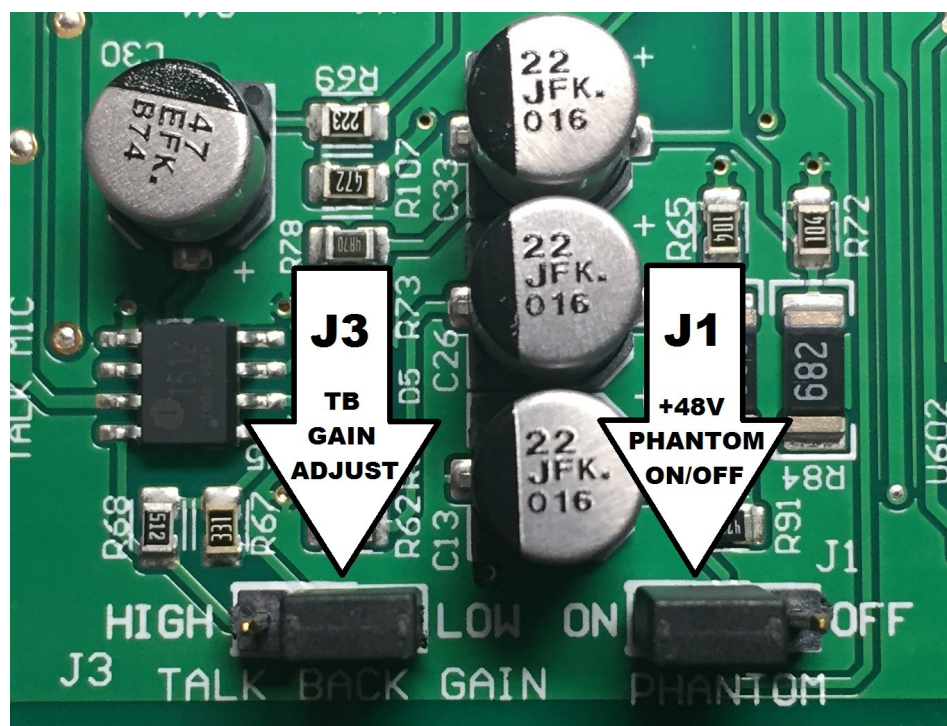
Master Section Block Diagram
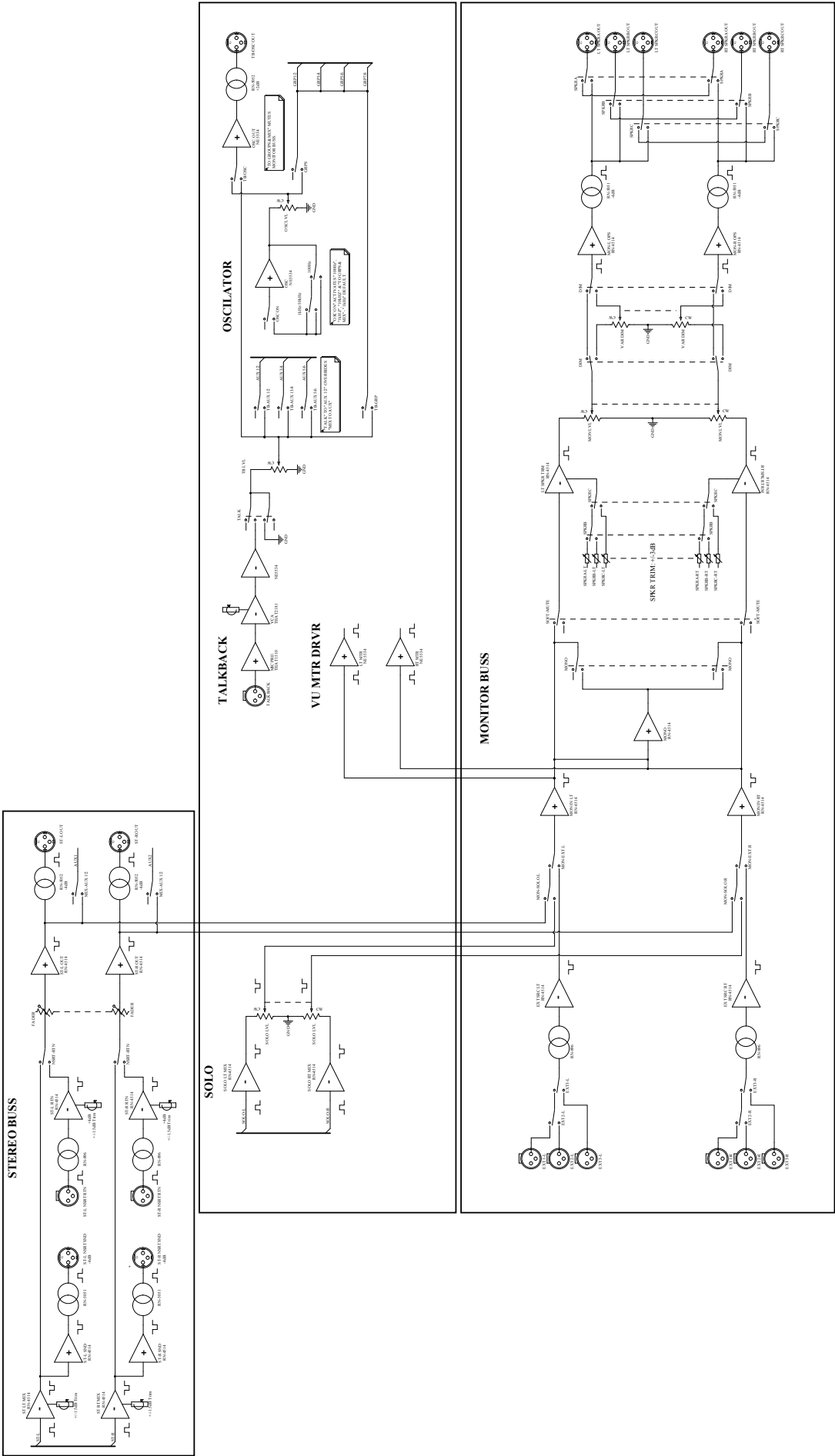
Limited Warranty

Rupert Neve Designs warrants this product to be free from defects in materials and workmanship for a period of three (3) years from date of purchase, and agrees to remedy any defect identified within that period by, at our option, repairing or replacing the product.

Limitations and Exclusions

This warranty, and any other express or implied warranty, does not apply to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, damaged by any dry cell battery, or which has been altered or modified in any way. This warranty is extended to the original end user purchaser only. A purchase receipt or other satisfactory proof of original purchase is required before any warranty service will be performed. **THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, TO THE EXTENT ALLOWED UNDER APPLICABLE STATE LAW. IN NO EVENT SHALL RUPERT NEVE DESIGNS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT.** Some states do not allow the exclusion or limitation of consequential damages or limitations on how long an implied warranty lasts, so this exclusion may not apply to you.

Warranty Service

If you suspect a defect in your device, please call us at 512-847-3013 or contact our support staff (service@rupertneve.com) for troubleshooting. If it is determined that the device is malfunctioning, we will issue a Return Material Authorization and provide instructions for shipping the device to our service department.